

SYSTEM AND METHOD FOR PROVISIONING OR UPDATING A
MOBILE STATION USING OVER-THE-AIR TRANSFER
OF INTERPRETED BYTE-CODE PROGRAM

ABSTRACT OF THE DISCLOSURE

5 There is disclosed a service provisioning system for use in a
wireless network containing a group of base stations that
communicate with mobile stations. The service provisioning system
comprises: 1) a database for storing a service provisioning file
comprising a mobile station service provisioning program in
10 interpreted byte-code format; and 2) a provisioning controller
coupled to the database that receives a notification indicating
that a first mobile station is unprovisioned and, in response
thereto retrieves the service provisioning file from the database
and transmits the service provisioning file to the first mobile
15 station. Receipt of the service provisioning file causes the
mobile station to execute the mobile station service provisioning
program in the service provisioning file. There also is disclosed
a mobile station capable of being provisioned from a wireless
network by an over-the-air (OTA) service provisioning process. The
20 mobile station comprises 1) an RF transceiver that receives and
demodulates forward channel messages from the wireless network and
modulates and transmits reverse channel messages to the wireless

network; and 2) a main controller that receives the demodulated forward channel messages from the RF transceiver and extracts therefrom a service provisioning file containing a mobile station service provisioning program in interpreted byte-code format. The
5 main controller, in response to receipt of the service provisioning file, interprets and executes the interpreted byte-code application program.